

# Facility Management Robots

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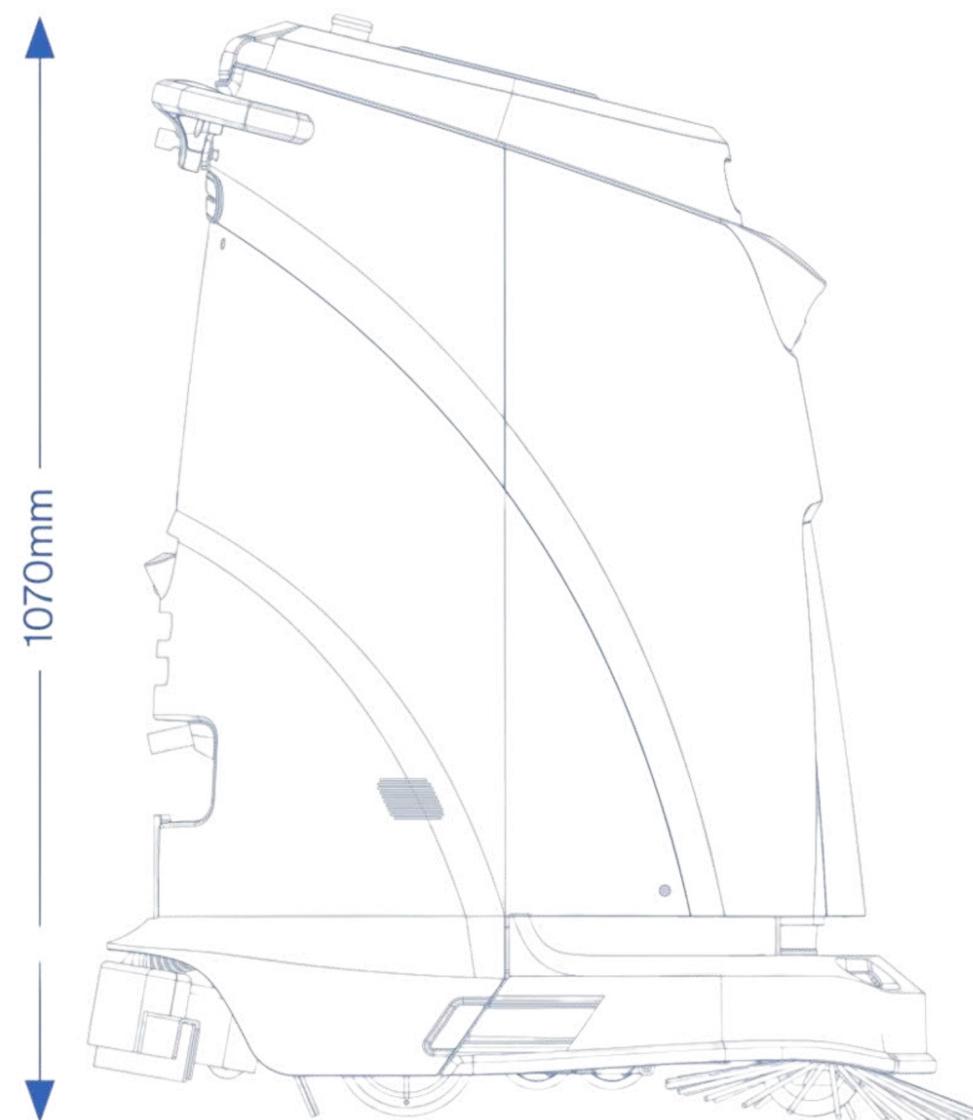
# Scrubber 50 / 50 Sprayer

AI-Powered Robotic Floor Scrubber



[www.qlytyss.com](http://www.qlytyss.com)

# KEY FEATURES



## 3 IN 1

- Integrating scrubbing, sweeping, and dust mopping.

## Ergonomic Manual Mode

- Easy manual operation - effortlessly walking and steering the machine with the ergonomic handle

## 5-Stage Filtration System

- Reducing around 80% freshwater consumption

## Superb Productivity

- Up to 1490 m<sup>2</sup>/h cleaning efficiency with disc brush and 2527 m<sup>2</sup>/h with roller brush

## Minimal Human Intervention

- Optional workstation for selfdocking power charging, water refill and discharge

## Auto Spot Cleaning<sup>2</sup>

- Scanning the cleanliness of the nearby floor and autonomously performing spot cleaning where waste or stains are detected, bringing up to 4X efficiency improvement and significantly reducing energy consumption

## CLEANING MADE EFFORTLESS SIMPLIFY YOUR WORK PROCESS

Scrubber 50 Pro will make cleaning much easier with little need for human interference. It perceives environmental changes, updates the map and reroutes itself in real time — you don't need to stand by to save it from getting lost or stuck. With the optional workstation, the robot can perform automatic power charging and water refill by itself.

- Smart obstacle avoidance and rerouting
- Remote-control mobile app
- One-stop service workstation



## SUPERB PERFORMANCE IN A BROAD RANGE OF APPLICATIONS

| Shopping centers | Supermarkets | Parking lots | Transportation Hubs | Manufacturing plants | Logistics warehouse | Plazas | etc.



Natural Stone



Artificial Marble  
/ Granite



Ceramic



Epoxy



Concrete



PVC & Vinyl

# Scrubber 50 /50 Sprayer

## Product Specifications

Feature	Scrub, Sweep, Mop, Sanitize
Size (without Sprayer Kit)	1860*w700*h1,030 mm (133*w27*h40in)
Unladen Weight	155/145 kg (342/320 lb)
Cleaning Width(disc brush / roller brush)	500 / 460 mm (20/18in)
Theoretical Max. Cleaning Productivity	1,600 m <sup>2</sup> /h (17,222 ft <sup>2</sup> /h)
Max. Output power	1200 w (1.6 hp)
Max. Gradeability	4.6°
Max. Moving Speed	1 m/s (2 mph)
Disk Brush	Height Adjustable 2*230mm (9in)
Roller Brush (optional)	Height Adjustable 2*ø72*370mm (2.8*14.5in)
Dust Mop	Compatible
Clean / Recovered Water Tank	24/18 l (6.3/4.8 us gal)
Trash Tray (for roller brush)	2*0.6 l (0.16 us gal)
Sensor System	2d Lidar, 3*Depth Camera, Air Pressure Bumper
Max. Endurance	≈2~6h
Nozzle	2
Atomized Particle	1-5 micron
Max. Atomizing Flow	1.8 l/h (0.5 us gal/h)
Atomizing Duration	3h
Life Span of Atomizer	≥5,000 h
Recommended Disinfectants	Hypochlorous acid, QAC Sanitizer, etc.

### Dual Purpose<sup>3</sup>

Auto and manual mode

### Multiple Sensors<sup>1</sup>

Long-range lidar, visual sensor, and passive collision sensors are all fused together to empower the robot to detect various obstacles from all directions

### Work station<sup>4</sup>

With optional work station the robot can charge, refill and drain itself autonomously

### Roller & Disc Brush

Optional for roller brush or disc brush

### Dust mop<sup>5</sup>

Dust mopping function is available



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# Scrubber 75 / 75P

Heavy-duty Cleaning with Best-in-class Sensing



[www.qlytyss.com](http://www.qlytyss.com)

## BOOSTING YOUR PRODUCTIVITY OF LARGE AREA CLEANING

Scrubber 75 / 75P is an industrial cleaning robot. The autonomous floor scrubber is equipped with 20+ sensors all around the machine body that guarantees superb environmental perception and smart obstacle avoidance.

With a 750mm scrubbing width and a 75L clean water tank, the robot is an ideal choice for large-area cleaning missions.

Scrubber 75/75p features superior maneuverability with an innovative front-mounted brush head, an ergonomic steering wheel and stand-on pedal.



## CLEANING MADE EFFORTLESS SIMPLIFY YOUR WORK PROCESS

Scrubber 75 / Scrubber 75P will make cleaning work much easier with little need for human interference. It perceives environmental changes, updates the map and reroutes itself in real time — you don't need to stand by to save it from getting lost or stuck. With the optional workstation, the robot can perform power charging and water refill by itself.

- Smart obstacle avoidance and rerouting
- Remote-control mobile app
- One-stop service workstation



## SUPERB PERFORMANCE IN A BROAD RANGE OF APPLICATIONS

| Shopping centers | Supermarkets | Parking lots | Transportation Hubs | Manufacturing plants | Logistics warehouse | Plazas | etc.



Natural Stone



Artificial Marble  
/ Granite



Ceramic



Epoxy



Concrete



PVC & Vinyl

# KEY FEATURES

## Superb Productivity

- Integrating scrubbing, sweeping, dust mopping and degreasing.
- Up to 3000 m<sup>2</sup>/h cleaning efficiency.

## 270° Rotational Scrub Deck

- Accessing and cleaning 90° corners, putting a stop to incomplete cleaning once and for all.

## Oil Stain Cleaning

- Able to mark oil stains in the map and perform thorough oil cleaning.

## 5-Stage Filtration System

- Reducing around 80% freshwater consumption

## Minimal Human Intervention

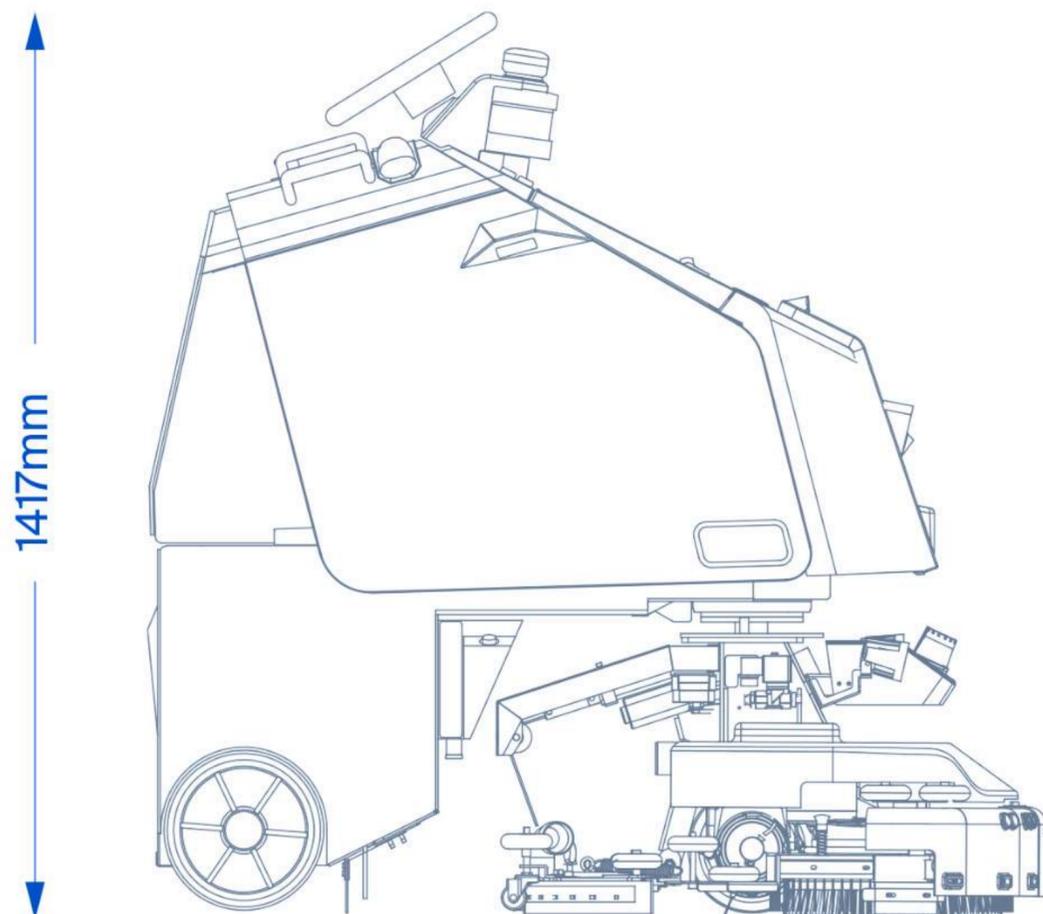
- Optional workstation for self-docking charging, water refill and discharge

## Best-in-class Sensing

- Market-leading sensor system consisting of 3D LiDar, 2D Laser and 3D Cameras, 75 / 75P is equipped with Millimeterwave radars for faster and more accurate perception of the vehicle movements.

## Advance lighting system (75P)

- Adopting flashing light, blue projection light and supplement light, distinctively communicating the machine position through vehicle-identifiable signals



# Scrubber 75 / 75P

## Product Specifications

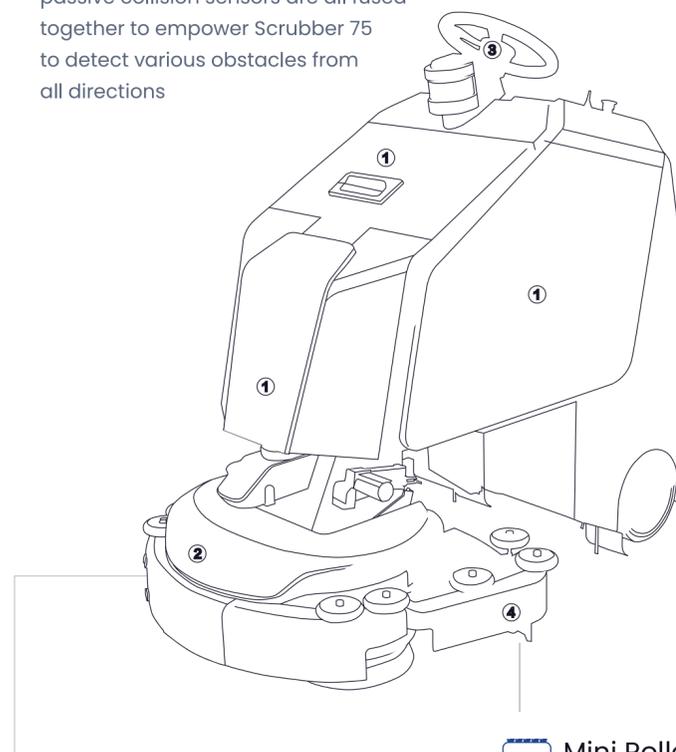
Feature _____	Scrub, Sweep, Mop, Degrease
Size _____	11370*w962*h1,417 mm (54*38*56in)
Unladen Weight _____	400 kg (880lb)
Cleaning Width _____	750 mm (30in)
Theoretical Max. Cleaning Productivity _____	3,000 m <sup>2</sup> /h (32,292ft <sup>2</sup> /h)
Max. Output power _____	2,000 w (2.7 hp)
Max. Gradeability _____	8°
Max. Moving Speed _____	1.1m/s (2.5 mph)
Max. Passable Obstacle Height _____	10 mm (0.4in)
Disc Brush _____	3*254 mm (3*10in)
Roller Brush (optional) _____	2*ø100*370 mm (3.9*14.5in)
Clean / Dirty Water Tank _____	75/50l (20/13 us gal)
Sensor System _____	3D LiDAR, 2D LiDAR, 3D Camera Collision Bumper Millimeter-wave Radar (75 P)
Max. Endurance _____	≈4 ~ 6h

### Multiple Sensors<sup>1</sup>

3D lidar, 2D lidar, visual sensors, and passive collision sensors are all fused together to empower Scrubber 75 to detect various obstacles from all directions

### Dual Purpose<sup>3</sup>

Auto and manual mode



### Front Brush Head<sup>2</sup>

Front brush head rotate 270° with brush rotation speed at 270 rpm and scrubbing pressure 45kg (99 lb) , leaving no area uncleaned

### Mini Roller Brush<sup>4</sup>

Optional for light sweeping



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# Scrubber 111

Heavy-duty Autonomous Sweeping Robot



[www.qlytyss.com](http://www.qlytyss.com)

## **HIGH PERFORMER, WHETHER INDOORS OR OUTDOORS**

Sweeper 111 is an industrial cleaning machine designed for heavy-duty cleaning in large sites either indoor or outdoor. Fine dust, waste and trash of various sizes are all within its cleaning capacity supported by its ultra-strong absorption ability. This makes the robot an ideal choice for cleaning open-air grounds and industrial sites where there is a lot of dust, debris and industrial wastes. It has LED light that casts a blue glow on the floor, which adds to the security particularly in cleaning warehouses by giving a visual warning to staff or forklift drivers in intersecting aisles.



## SMART AND FLEXIBLE BOOST YOUR CLEANING PRODUCTIVITY

With its large-capacity trash bin and a cleaning efficiency up to 5,500 m/h, Sweeper 111 is designed for heavy-duty cleaning in large sites either indoor or outdoor. Fine dust, waste and trash of various sizes are all within its cleaning capacity supported by its ultra-strong absorption ability.

- 60L trash bin
- Ultra-strong suction motor
- Up to 5,500 m /h cleaning efficiency



## SUPERB PERFORMANCE IN A BROAD RANGE OF APPLICATIONS

| Shopping centers | Supermarkets | Parking lots | Transportation Hubs | Manufacturing plants | Logistics warehouse | Plazas | etc.



Natural Stone



Artificial Marble / Granite



Ceramic



Epoxy



Concrete



PVC & Vinyl

# KEY FEATURES



## Ultra-strong Absorption

- Able to absorb trash of various shapes and sizes, including fine dust, sand, beverage bottles, milk cartons, cigarette butts, bamboo sticks etc.

## 360° Visibility

- Market-leading 30+ sensors (including 3D LiDAR) placed all over the machine body, reacting to obstacles and environmental changes in real-time for all-round security.

## Superb Productivity

- Up to 5500 m<sup>2</sup>/h cleaning efficiency with a large-capacity trash bin of 60L

## Ergonomic Manual Mode

- Equipped with stand-on pedal and steering wheel for effortlessly carrying the machine

## Auto Dumping

- Moving to the dumping point and completing the dumping process independently

## Auto Charging

- Optional charging dock for autonomous power charging

# Sweeper 111

## Product Specifications

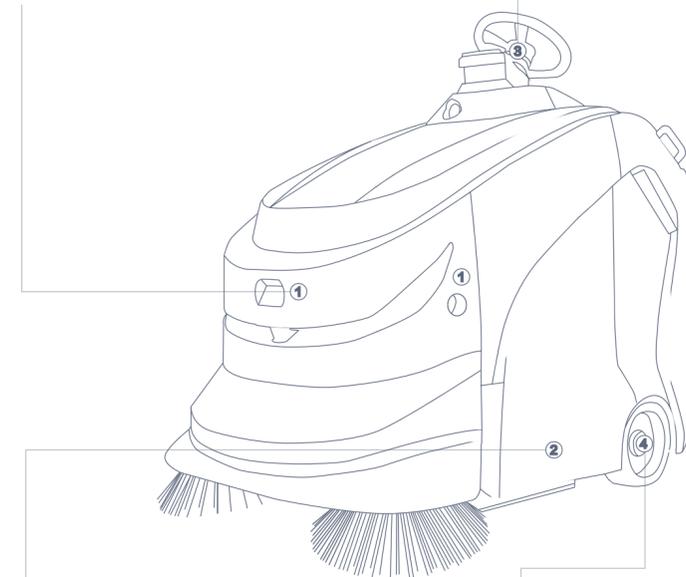
Feature	Sweep
Size	11530*w1,010*h1,400 mm (160*w40*h55in)
Unladen Weight	500 kg (1,100lb)
Cleaning Width	1,100 mm (43in)
Theoretical Max. Cleaning Productivity	5,500 m <sup>2</sup> /h (59,200ft <sup>2</sup> /h)
Max. Air Flow Volume	2 m <sup>3</sup> /min
Rated Voltage	24v dc
Max. Output Power	2,500 w (3.4 hp)
Max. Moving Speed	1.2 m/s (2.7mph)
Max. Gradeability	11°
Max. Passable Obstacle Height	40 mm (1.6in)
Side Brush	Height Adjustable 2*ø400 mm (15.7in)
Roller Brush	Front Fixed + Rear Adjustable, 2*ø330*480 mm (13*19in)
Trash Box	60l (16 us gal)
Max. Cleanable Trash Size and Weight	200*50*50 mm (8*2*2in), 250 g (0.55 lb)
Sensor System	3d lidar, 2d lidar, 5*depth camera air pressure bumper
Max. Endurance	≈4h ~ 7h

### Multiple Sensors<sup>1</sup>

Long-range lidar, visual sensor, and passive collision sensors are all fused together to empower Sweeper 111 to detect various obstacles from all directions

### Dual Purpose<sup>3</sup>

Manual and automatic mode



### Differential chassis<sup>4</sup>

Flexible steering gear free to move in and out

### Climbing ability<sup>2</sup>

Climbs up to 11 degrees



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# Vacuum 40

Your Robotic Vacuuming Expert



[www.qlytyss.com](http://www.qlytyss.com)

## YOUR ROBOTIC VACUUMING EXPERT

Vacuum 40 is a commercial vacuum robot. Compactly designed and applicable to both soft and hard floor types, Vacuum 40 is an ideal solution for hotels with narrow corridor aisles and carpet-tile flooring.

With side brushes and an add-on mop, the automated floor cleaner can achieve simultaneous vacuuming and sweeping on carpets, as well as simultaneous sweeping and dry mopping on hard floors.

Supported by 3D cameras, it is able to identify floor types and switch to the suitable cleaning mode autonomously.



## AIR FRESHENING & PURIFYING SPICE UP YOUR CLEANING ROUTINE

Vacuum 40 is an ultimate multitasker. Not only does it keep floors spotless, but it also helps create an inviting environment that smells amazing – an innovative multi-purpose diffuser kit could be easily equipped onto it for purification, humidification or aroma diffusion.

Experience the joy of breathing in purified air with the help of its medical-grade H13 HEPA filter that effectively captures harmful particles and allergens.

- Smart obstacle avoidance and rerouting
- Remote-control mobile app
- One-stop service workstation



## SUPERB PERFORMANCE IN A BROAD RANGE OF APPLICATIONS

Hotels | Office buildings | Hospitals |  
Schools | SME markets | Pavilions | etc.



High Pile  
Carpet



Low Pile  
Carpet



Natural  
Stone



Artificial Marble /  
Granite



PVC & Vinyl



Epoxy

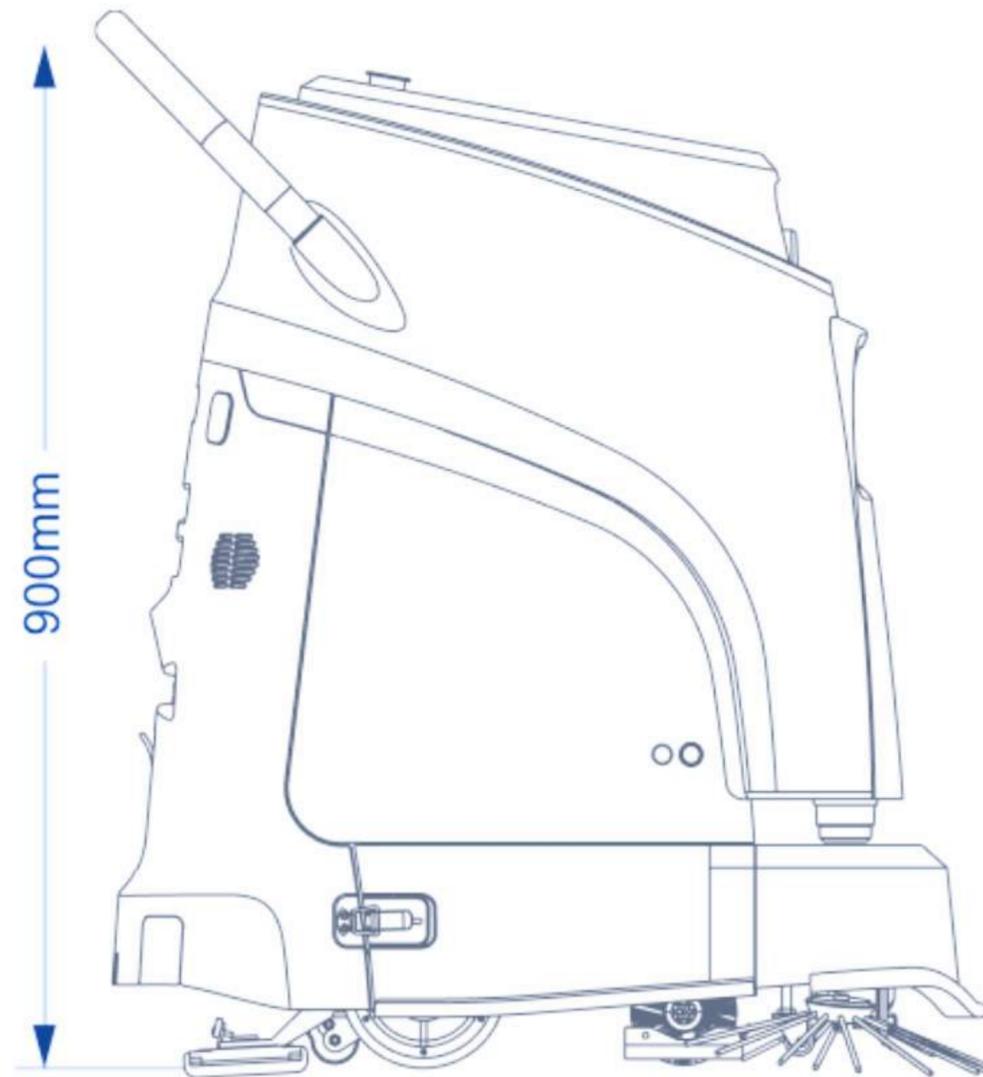


Ceramic



Hardwood

# KEY FEATURES



## 3-in-1 Cleaning

- Integrating vacuuming, sweeping, dust mopping

## Adaptability

- Working perfectly on varying flooring types, be it a hard surface, a low pile carpet or a high pile carpet

## 24 KPA Powerful Suction

- Strong suction performance - effortlessly picking up fine dust and debris.

## Multi-purpose Diffuser Kit

- Optional diffuser kit for purifying & humidifying or aroma diffusion

## Zero Distance from Edge

- Able to clean along the edges zero-distance-close with side brushes and high-precision sensors.

## H13 HEPA Filter

- Medical-grade air purifying capability

## Vacuum 40 / 40 Diffuser

### Product Specifications

Feature	Vacuum, Sweep, Mop, Sanitize/Scent (Optional)
Size (without Diffuser Kit)	1700*w570*h875 mm (127*w22*h34in)
Unladen Weight (without Diffuser Kit)	80kg (176 lb)
Cleaning Width	720mm (28in)
Theoretical Max. Cleaning Productivity	1,200m <sup>2</sup> /h (13,000 ff/h)
Rated Voltage	24v dc
Max. Output power	960w (1.3 hp)
Max. Air Flow Volume	2.0 m <sup>3</sup> /min
Max. Gradeability	4.6°
Max. Moving Speed	1m/s (2.2 mph)
Dust Mop	Compatible
Dust Bag	12l (3 us gal)
Trash Tray	2.5l (0.7 us gal)
Max. Vacuum Pressure	24 kpa (3.4 psi)
Air Filter (hepa)	h13
Max. Gradeability	4.6°
Sensor System	2D LiDAR, 3D Camera Air Pressure Bumper
Diffuser Kit	Sanitizing / Scenting
Atomization Type	Ultrasonic / Air Comperssor Pump
Container Capacity	4L (1.05 gal) / 500ml (0.13 gal)
Max. Atomization	1.5 l/h (0.4 gal/h) / 6 ml/h (0.002 gal/h)
Atomizer Lifespan	≥ 5,000 h / ≥ 8,000 h
Recommended	Hypochlorous, QAC Sanitiser / Essential Oils



# Cybersecurity Compliance Certificate

Issuance Date: 10.11.2022  
CCC Reference Number: 09-989-101122-N



## Cybersecurity Compliance Certificate

This is to confirm that

### Quality Support Solutions Co. Ltd

[Commercial Registration No. 1010559652]  
Riyadh, KSA

Was subject to an assessment by RSM - Saudi Arabia to evaluate its compliance with Saudi Aramco Third Party Cybersecurity Standard (SACS-002). Based on the assessment carried out between **15 Septmeber 2022** and **11 October 2022**, Quality Support Solutions Co. Ltd was found to be compliant with the Standard.

For the classification of: **General Requirements, Type: CCC**

This certificate is valid for a period of two years from the date of issuance.

#### Disclaimer:

This certificate is provided based on the information provided by Quality Support Solutions Co. Ltd that indicates their cybersecurity posture at the time of the assessment. RSM – Saudi Arabia has not evaluated the adequacy or appropriateness of the Standard compiled by Saudi Aramco. RSM – Saudi Arabia evaluation was limited to assessment against Saudi Aramco Third Party Cybersecurity Standard (SACS-002) and should not be relied upon as an assurance beyond the areas covered by this Standard. RSM – Saudi Arabia shall not be liable for any loss, damages, costs or expenses directly or indirectly incurred by any third party, who may rely upon this certificate for whatsoever reason. This certificate is only for the purpose of meeting the requirements of Saudi Aramco and should not be published on any website or relied upon by anyone other than Saudi Aramco.



Authorized Signatory

By Audit Firm

# ISO Certificates

# QUALITY SUPPORT SOLUTIONS

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## Certificate of Registration



This is to certify that Quality Management System of

### QUALITY SUPPORT SOLUTIONS

7302 Eastern Ring Road, 4571 Ar Rabwah Dist., 12824 Riyadh

is in accordance with the requirements of the following standard

## ISO 9001:2015

(Quality Management System)

### SCOPE

Robotics & Artificial Intelligence Solutions

Certificate Number : SCK/01/QSS/22/96/3560

Initial Registration Date : 12-Dec-2022

1<sup>st</sup> Surveillance Date : 12-Nov-2023

2<sup>nd</sup> Surveillance Date : 12-Nov-2024

Certificate Expiry Date : 11-Dec-2025

To verify certificate, visit at :

[www.sckcerts.com](http://www.sckcerts.com)  
[www.iafcertsearch.org](http://www.iafcertsearch.org)

Issued by SCK Certifications Pvt. Ltd.

*AD Alshab*  
Director



Accreditation Board : 3080, Saturn Street, Suite 100, Brea, California 92821-1732, USA

This certificate remains the property of SCK and must be returned to SCK on Cancellation or Suspension of the certificate. Validity of the certificate is subject to successful completion of surveillance audits. Further clarification regarding the scope of this certificate and the applicability of standards may be obtained by consulting the Organisation on [info@sckcerts.com](mailto:info@sckcerts.com)

## Certificate of Registration



This is to certify that Information Security Management System of

### QUALITY SUPPORT SOLUTIONS

7302 Eastern Ring Road, 4571 Ar Rabwah Dist., 12824 Riyadh

is in accordance with the requirements of the following standard

## ISO 27001:2013

(Information Security Management System)

### SCOPE

Robotics & Artificial Intelligence Solutions

(SOA: SOA/QSS/Ver.1.0/Rev.00/Date:12.05.2022)

Certificate Number : SCK/05/QSS/22/96/3562

Initial Registration Date : 12-Dec-2022

1<sup>st</sup> Surveillance Date : 12-Nov-2023

2<sup>nd</sup> Surveillance Date : 12-Nov-2024

Certificate Expiry Date : 11-Dec-2025

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Issued by SCK Certifications Pvt. Ltd.

*AD Alshab*  
Director



Accreditation Board : 3080, Saturn Street, Suite 100, Brea, California 92821-1732, USA

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## Certificate of Registration



This is to certify that Occupational Health & Safety Management System of

### QUALITY SUPPORT SOLUTIONS

7302 Eastern Ring Road, 4571 Ar Rabwah Dist., 12824 Riyadh

is in accordance with the requirements of the following standard

## ISO 45001:2018

(Occupational Health & Safety Management System)

### SCOPE

Robotics & Artificial Intelligence Solutions

Certificate Number : SCK/03/QSS/22/96/3561

Initial Registration Date : 12-Dec-2022

1<sup>st</sup> Surveillance Date : 12-Nov-2023

2<sup>nd</sup> Surveillance Date : 12-Nov-2024

Certificate Expiry Date : 11-Dec-2025

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**Thank You  
for your time!**

[www.qityss.com](http://www.qityss.com)



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